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Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 20040215640 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 5 File: PGPB Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040215640
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040215640 A1

TITLE: Parallel recovery by non-failed nodes

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bamford, Roger J.	Peterborough	NH	US
Chandrasekaran, Sashikanth	Chennai	CA	IN
Pruscino, Angelo	Los Altos		US

US-CL-CURRENT: 707/100

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

2. Document ID: US 20030225760 A1

L6: Entry 2 of 5 File: PGPB Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030225760
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030225760 A1

TITLE: Method and system for processing replicated transactions parallel in secondary server

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ruuth, Jarmo	Espoo		FI
Parkkinen, Jarmo	Helsinki		FI
Soini, Petri	Vantaa		FI
Wolski, Antoni	Kirkkonummi		FI

US-CL-CURRENT: 707/5

☐ 3. Document ID: US 20020099729 A1

L6: Entry 3 of 5 File: PGPB Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020099729
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020099729 A1

TITLE: Managing checkpoint queues in a multiple node system

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chandrasekaran, Sashikanth	Bellmont	CA	US
Bamford, Roger J.	Woodside	CA	US
Bridge, William H.	Alameda	CA	US
Brower, David	Alamo	CA	US
MacNaughton, Neil	Los Gatos	CA	US
Chan, Wilson Wai Shun	San Mateo	CA	US
Srihari, Vinay	San Francisco	CA	US

US-CL-CURRENT: 707/203

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 4. Document ID: US 6978396 B2

L6: Entry 4 of 5 File: USPT Dec 20, 2005

US-PAT-NO: 6978396
DOCUMENT-IDENTIFIER: US 6978396 B2

TITLE: Method and system for processing replicated transactions parallel in secondary server

DATE-ISSUED: December 20, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ruuth; Jarmo	Espoo			FI
Parkkinen; Jarmo	Helsinki			FI
Soini; Petri	Vantaa			FI
Wolski; Antoni	Kirkkonummi			FI

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE

Solid Information Technology Oy Helsinki FI 03

APPL-NO: 10/156799 [PALM]
DATE FILED: May 30, 2002

INT-CL-ISSUED: [07] G06 F 11/00

US-CL-ISSUED: 714/6; 714/16, 707/202
US-CL-CURRENT: 714/6; 707/202, 714/16

FIELD-OF-CLASSIFICATION-SEARCH: 714/6, 714/16, 707/202, 707/8
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5452445	September 1995	Hallmark et al.	707/2
5781910	July 1998	Gostanian et al.	707/201
5799322	August 1998	Mosher, Jr.	707/202
5806075	September 1998	Jain et al.	707/201
5870761	February 1999	Demers et al.	707/201
6065018	May 2000	Beier et al.	707/202
6122630	September 2000	Strickler et al.	707/8
6144941	November 2000	Hotti et al.	705/4
6324654	November 2001	Wahl et al.	714/6
6725242	April 2004	Gardner	707/203
2002/0087501	July 2002	Breitbart etal.	707/1
2002/0116457	August 2002	Eshleman et al.	709/203
2002/0133507	September 2002	Holenstein et al.	707/200
2003/0217119	November 2003	Raman et al.	709/219

ART-UNIT: 2114

PRIMARY-EXAMINER: Baderman; Scott

ASSISTANT-EXAMINER: Contino; Paul

ATTY-AGENT-FIRM: Young & Thompson

ABSTRACT:

This invention relates generally to database servers and computer systems and, more particularly, describes the mechanism to run transaction operations originating from a primary server used to replicate data in parallel in a secondary server. Especially the invention relates to running concurrent or parallel operations in a secondary server for redundancy, recovery and propagated transactions. This invention describes how parallel operation in a secondary server improves performance and availability and how it maintains transaction order and output congruent with the primary server where transaction operations are originated.

30 Claims, 16 Drawing figures

☐ 5. Document ID: US 6078930 A

L6: Entry 5 of 5 File: USPT Jun 20, 2000

US-PAT-NO: 6078930
DOCUMENT-IDENTIFIER: US 6078930 A

TITLE: Multi-node fault-tolerant timestamp generation

DATE-ISSUED: June 20, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; J. William	Foster City	CA		
Bridge, Jr.; William H.	Alameda	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Oracle Corporation	Redwood Shores	CA			02

APPL-NO: 08/961798 [PALM]
DATE FILED: October 31, 1997

PARENT-CASE:
This application is a continuation of and claims priority from patent application Ser. No. 08/808,582, filed Feb. 28, 1997, entitled Fault-Tolerant Timestamp Generation for Multi-Node Parallel Databases which is incorporated herein by reference.

INT-CL-ISSUED: [07] G06 F 17/00, G06 F 11/00

US-CL-ISSUED: 707/202; 707/203, 714/20
US-CL-CURRENT: 707/202; 707/203, 714/20

FIELD-OF-CLASSIFICATION-SEARCH: 707/200, 707/201, 707/202, 707/203, 714/12, 714/15, 714/16, 714/20
See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4507751	March 1985	Gawlick et al.	364/900
5001730	March 1991	Franaszek et al.	375/107
5155678	October 1992	Fukumoto et al.	395/425
5278982	January 1994	Daniels et al.	395/600

5280611	January 1994	Mohan et al.	395/600
5561795	October 1996	Sarkar	395/600
5566180	October 1996	Eidson et al.	370/94.2
5613113	March 1997	Goldring	395/618
5737600	April 1998	Geiner et al.	395/616
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5822381	October 1998	Parry et al.	325/356

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Lamport, Leslie, "Time, Clocks, and the Ordering of Events in a Distributed System," Operating Systems, Communications of the ACM, Jul. 1978, vol. 21, No. 7, pp. 558-565, ACM 0001-0782/78/0700-0558.
Li, Chung-Sheng and Ofek, Yoram, "Distributed Souce-Destination Synchronization Using Inband Clock Distribution," IEEE Journal on Selected Areas in Communications, vol. 14, No. 1, Jan. 1996.
Sens, Pierre, "The Performance of Independent Checkpointing in Distributed Systems," Proceedings of the 28.sup.th Annual Hawaii International Conference on System Sciences--1995.
Abali, Bulent and Stunkel, Craig B., "Time Synchronization on SP1 and SP2 Parallel Systems," IBM Thomas J. Watson Research Center, N.Y., 1995.
Vervoort, W.A., teWest, R., Schoute, A.L. and Hofstede, J., "Distributed Time-Management in Transputer Networks," Department of Computer Science, University of Twente, The Netherlands, 1991.
Comer, Douglas E. and Yavatkar, Raji, "High-Speed Propagation of Link Status Routing Control Information," Department of Computer Science at Purdue University and the Univeristy of Kentucky, 1990.

ART-UNIT: 277

PRIMARY-EXAMINER: Kulik; Paul V.

ATTY-AGENT-FIRM: McDermott, Will & Emery

ABSTRACT:

Techniques for determining a safe recovery time value after a failure of a first node in a computer system are described. According to the techniques, every node in a multi-node parallel database system maintains a logical clock for generating timestamps. The logical clocks are synchronized by attaching a current timestamp to every message that is sent by a node. When a node receives an incoming timestamp that is greater than the value indicated by the associated logical clock, it sets the associated logical clock forward to at least the value of the timestamp. When a node fails, a recovery node calculates a "safe" logical clock value to use in recovering the crashed node. In calculating the "safe" logical clock value, the recovery node searches specific areas of the database to locate and recover a most recent timestamp value associated with the crashed node. The recovery node then compares its current logical clock time value with the most recent crash node timestamp value to determine which timestamp is most recent. If the most recent crash node timestamp value is more recent than the recovery node's current logical clock time value, the recovery node's logical clock is updated to be at least as recent as the most recent crash node timestamp value. The recovery node then recovers the crashed node as its logical clock is guaranteed to be at least as recent as any timestamp value that was previously written to the database by the crashed node prior to failure.

54 Claims, 8 Drawing figures

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image

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Term	Documents
MULTI	1156348
MULTIS	140
NODE	323336
NODES	201918
(4 AND (MULTI NEAR NODE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5
(L4 AND (MULTI NEAR NODE)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

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Previous Page Next Page Go to Doc#

PALM INTRANET

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Application Number Information

Application Number: **10/965360** **Assignments**
Filing or 371(c) Date: **10/12/2004**
Effective Date: **10/12/2004**
Application Received: **10/14/2004**
Pat. Num./Pub. Num: **/20050065907**
Issue Date: **00/00/0000**
Date of Abandonment: **00/00/0000**
Attorney Docket Number: **50277-2658**
Status: **120 /NOTICE OF APPEAL FILED**
Confirmation Number: **4408**

Examiner Number: **73675 / CORRIELUS, JEAN**
Group Art Unit: **2162**
Class/Subclass: **707/205.000**
Lost Case: **NO**
Interference Number:
Unmatched Petition: **NO**
L&R Code: Secrecy Code:**1**
Third Level Review: **NO**

Oral Hearing: **NO**

IFW IMAGE

Waiting for Response Desc.
AP.C
Not of Appeal Fl
Prior Art Filed

Secrecy Order: **NO**
Status Date: **12/29/2005**

Title of Invention: **MANAGING CHECKPOINT QUEUES IN A MULTIPLE NODE SYSTEM**

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